

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2005/000123

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B23B 29/00 // B23B 29/02, B23Q 11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B23B, B23C, B23Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6076999 A (ANNA HEDBERG ET AL), 20 June 2000 (20.06.2000), figure 1, claim 1, abstract --	1-12
Y	EP 0663542 A1 (LINTEC CORPORATION), 19 July 1995 (19.07.1995), figure 1, abstract --	1-12
Y	DE 19948891 A1 (BOEHRINGER WERKZEUGMASCHINEN GMBH), 19 April 2001 (19.04.2001), figures 2,3a, claim 1, abstract --	1-12

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier application or patent but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

& document member of the same patent family

Date of the actual completion of the international search

4 May 2005

Date of mailing of the international search report

11-05-2005

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INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DATABASE WPI Week 197807 Derwent Publications Ltd., London, GB; Class P54, AN 1978-B4449A & SU559779 A (LENGD MECHANIC INST), 30 June 1977 (1977-06-30) abstract; & SU 559779, figure 1 --	1-12
A	DATABASE WPI Week 197725 Derwent Publications Ltd., London, GB; Class P54, AN 1977-F2088Y & SU536890 A (LENG MECH ENG COLL), 26 December 1976 (1976-12-26) abstract; & SU 536890, figure 1 --	1-12
A	DATABASE WPI Week 200367 Derwent Publications Ltd., London, GB; Class A88, AN 2003-700165 & JP2003062758 A (ENOMOTO KK) 05 March 2003 (2003-03-05) abstract; & JP 2003-62758, figure 1 --	1-12
A	DATABASE WPI Week 199735 Derwent Publications Ltd., London, GB; Class M13, AN 1991-003001 & JP2279329 A (TANAKA KIKINZOKU KOGYO KK), 30 July 1997 (1997-07-30) abstract; & JP 2-279329, figure 1,2 --	1-12

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE WPI Week 198149 Derwent Publications Ltd., London, GB; Class P54, AN 1981-M6314D & SU810387 B (IRKUT POLY) 10 March 1981 (1981-03-10) abstract; & SU 810387, figure 1 --	1-12
A	EP 1266710 A1 (MITSUBISHI MATERIALS CORPORATION), 18 December 2002 (18.12.2002), figure 1, abstract --	1-12
A	WO 0076702 A1 (CATERPILLAR INC.), 21 December 2000 (21.12.2000), figure 1, abstract -- -----	1-12

INTERNATIONAL SEARCH REPORT
Information on patent family members

01/04/2005

International application No.

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US	6076999	A	20/06/2000	DE	69715673 D,T	15/05/2003
				EP	0958082 A,B	24/11/1999
				JP	2001505133 T	17/04/2001
				SE	511395 C	20/09/1999
				SE	9602727 A	09/01/1998
				WO	9801250 A	15/01/1998
				SE	508988 C	23/11/1998
				SE	9701232 A	05/10/1998

EP	0663542	A1	19/07/1995	AU	689821 B	09/04/1998
				AU	8173994 A	06/07/1995
				DE	69420383 D,T	30/12/1999
				JP	7196992 A	01/08/1995
				US	5712038 A	27/01/1998

DE	19948891	A1	19/04/2001	EP	1224049 A	24/07/2002
				WO	0126857 A	19/04/2001

EP	1266710	A1	18/12/2002	CN	1390666 A	15/01/2003
				JP	2003062735 A	05/03/2003
				US	20020190449 A	19/12/2002

WO	0076702	A1	21/12/2000	AU	5039800 A	02/01/2001
				DE	10084705 T	16/05/2002
				US	6299391 B	09/10/2001
